RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

09/493,795 Application Serial Number: Art Unit / Team No.: Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/493,795

DATE: 02/17/2000 TIME: 12:51:55

Input Set: I493795, RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

```
]pp5,2-3
```

```
<110> APPLICANT: Watkins, Maren
 1
           Olivera, Baldomero M.
 2
           Hillyard, David R.
 3
                                                                   Does Not Comply
 4
           McIntosh, J. Michael
                                                               Corrected Diskette Needed
 5
           Jones, Robert M.
 6
     <120> TITLE OF INVENTION: Alpha-Conotoxin Peptides
 7
     <130> FILE REFERENCE: Alphas 2
 8
     <140> CURRENT APPLICATION NUMBER: US/09/493,795
 9
     <141> CURRENT FILING DATE: 2000-01-28
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     <151> EARLIER FILING DATE: 1999-01-29
     <160> NUMBER OF SEQ ID NOS: 404
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     <170> SOFTWARE: PatentIn Ver. 2.0
13
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     <212> TYPE: PRT
16
     <213> ORGANISM: Artificial Sequence
17
18
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     <223> OTHER INFORMATION: Description of Artificial Sequence: Alpha-Conotoxin
19
20
           Peptide Generic Formula I
21
     <220> FEATURE:
                                                          /
     <221> NAME/KEY: PEPTIDE
22
23
     <222> LOCATION: (1)..(3)
     <223> OTHER INFORMATION: Xaa at residue 1 is des-Xaa, Ile, Leu or Val; Xaa
24
           at residue 2 is des-Xaa, Ala or Gly; Xaa at
25
26
           residue 3 is des-Xaa, Gly, Trp (D or L), neo-Trp,
           halo-Trp or any unnatural aromatic amino acid.
27
28
     <220> FEATURE:
29
     <221> NAME/KEY: PEPTIDE
30
     <222> LOCATION: (4)..(5)
     <223> OTHER INFORMATION: Xaa at residue 4 is des-Xaa, Gly, Trp (D or L),
31
32
           neo-Trp, halo-Trp or any unnatural aromatic amino
33
           acid; Xaa at residue 5 is Glu, gamma-carboxy-Glu
34
           (Gla), Asp, Ala, Thr, Ser, Gly, Ile, Tyr, nor-Tyr,
35
     <220> FEATURE:
36
     <221> NAME/KEY: PEPTIDE
37
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38
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39
           O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
40
           containing amino acid; Xaa at residue 8 is Ser,
41
           Thr, Arg, ornithine, homoarginine, Lys,
42
           N-methyl-Lys,
43
     <220> FEATURE:
     <221> NAME/KEY: PEPTIDE
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PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/493,795

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```
<222> LOCATION: (8)..(9)
45
     <223> OTHER INFORMATION: N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
46
47
           unnatural basic amino acid; Xaa at residue 9 is
           Asp, Glu, Gla, Arg, ornithine, homoarginine, Lys,
48
49
           N-methyl-Lys, N, N-dimethyl-Lys,
50
           N, N, N-trimethyl-Lys or
     <220> FEATURE:
51
     <221> NAME/KEY: PEPTIDE
52
53
     <222> LOCATION: (9)..(11)
     <223> OTHER INFORMATION: any unnatural basic amino acid; Xaa at residue 10
54
55
           is Ser, Thr, Asn, Ala, Gly, His, halo-His, Pro or
           hydroxy-Pro; Xaa at residue 11 is Thr, Ser, Ala,
56
57
           Asp, Asn, Pro, hydroxy-Pro,
58
     <220> FEATURE:
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60
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61
62
           N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
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63
64
           Gly, Ser, Thr, Ala, Asn,
65
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66
     <222> LOCATION: (13)..(14)
67
     <223> OTHER INFORMATION: Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
68
69
           N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
70
           unnatural basic amino acid; Xaa at residue 14 is
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71
72
           neo-Trp,
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73
74
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77
           O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr, Arg,
78
           ornithine, homoarginine, Lys, N-methyl-Lys,
79
           N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
           unnatural basic amino
80
81
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82
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84
85
           residue 15 is Asn, His, halo-His, Ile, Leu, Val,
86
           Gln, Arg, ornithine, homoarginine, Lys,
87
           N-methyl-Lys, N, N-dimethyl-Lys,
                                                             Cys is at residue 16 - do you
88
           N,N,N-trimethyl-Lys or any
89
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90
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91
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92
93
94
           homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
```

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RAW SEQUENCE LISTING
                                                                              DATE: 02/17/2000
PAGE:
                               PATENT APPLICATION US/09/493,795
                                                                              TIME: 12:51:55
                                                                   Input Set: I493795.RAW
                   N,N,N-trimethyl-Lys or any unnatural basic amino
        95
        96
                   acid.
             <400> SEQUENCE: 1
        97
                   Xaa Xaa Xaa Xaa Cys Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys
        98
                                                        10 _ .
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                                     5
      100
      101
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             <212> TYPE: PRT
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             <213> ORGANISM: Artificial Sequence
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      107
                   Peptide Generic Formula II.
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      109
             <221> NAME/KEY: PEPTIDE
                                                     1
      110
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      111
      112
                   gamma-carboxy-Glu (Gla); Xaa at residue 2 is
                   des-Xaa, Gln, Ala, Asp, Glu, Gla; Xaa at residue 3
      113
      114
                   is des-Xaa, Gly, Ala, Asp, Glu, Gla, Pro or
      115
                   hydroxy-Pro.
      116
             <220> FEATURE:
             <221> NAME/KEY: PEPTIDE
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             <222> LOCATION: (4)..(7)
      118
      119
             <223> OTHER INFORMATION: Xaa at residue 4 is des-Xaa4, Gly, Glu, Gla, Gln,
      120
                   Asp, Asn, Pro or hydroxy-Pro; Xaa at residue 7 is
      121
                   Ser, Thr, Gly, Glu, Gla, Asn, Trp (D or L),
      122
                   neo-Trp, halo-Trp, Arg, ornithine, homoarginine,
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             <220> FEATURE:
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             <221> NAME/KEY: PEPTIDE
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             <222> LOCATION: (7)
             <223> OTHER INFORMATION: Lys, N-methyl-Lys, N,N-dimethyl-Lys,
      126
      127
                   N, N, N-trimethyl-Lys, any unnatural basic amino
                   acid, Tyr, nor-Tyr, mono-halo-Tyr, di-halo-Tyr,
      128
      129
                   O-sulpho-Tyr, O-phospho-Tyr, nitro-Tyr or any
      130
                   unnatural hydroxy
      131
             <220> FEATURE:
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      135
                   Asn, His, halo-His, Thr, Ser, Tyr, nor-Tyr,
                   mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
      136
      137
                   O-phospho-Tyr, nitro-Tyr or any unnatural hydroxy
             <220> FEATURE:
      138
      139
             <221> NAME/KEY: PEPTIDE
      140
             <222> LOCATION: (8)..(10)
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             <223> OTHER INFORMATION: containing amino acid; Xaa at residue 9 is Pro or
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                  hydroxy-Pro; Xaa at residue 10 is Ala, Ser, Thr,
      143
                  Asp, Val, Ile, Pro, hydroxy-Pro, Tyr, nor-Tyr,
```

mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,

144

PAGE: 4 RAW SEQUENCE LISTING DATE: 02/17/2000

PATENT APPLICATION US/09/493,795 TIME: 12:51:55

Input Set: I493795.RAW

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145
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149
            containing amino acid; Xaa at residue 12 is Gly,
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            Phe, Trp (D or L), neo-Trp, halo-Trp, Arg,
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            ornithine,
152
153
      <220> FEATURE:
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      <222> LOCATION: (12)..(13)
      <223> OTHER INFORMATION: homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
156
157
            N, N, N-trimethyl-Lys, any unnatural basic amino
158
            acid or any unnatural aromatic amino acid; Xaa at
159
            residue 13 is Ala, Asn, Phe, Pro, hydroxy-Pro,
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162
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164
            ornithine, homoarginine, Lys, N-methyl-Lys,
165
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys or any
            unnatural basic amino acid.
166
      <220> FEATURE:
167
      <221> NAME/KEY: PEPTIDE
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      <222> LOCATION: (14)
169
170
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172
            ornithine, homoarginine, Lys, N-methyl-Lys,
173
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
174
            unnatural basic
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      <221> NAME/KEY: PEPTIDE
176
177
      <222> LOCATION: (14)..(15)
      <223> OTHER INFORMATION: amino acid, Tyr, nor-Tyr, mono-halo-Tyr,
178
179
            di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr,
180
            nitro-Tyr or any unnatural hydroxy containing
181
            amino acid; Xaa at residue 15 is Asn, Pro,
            hydroxy-Pro, Gln, Ser, Thr,
182
      <220> FEATURE:
183
      <221> NAME/KEY: PEPTIDE
184
185
      <222> LOCATION: (15)
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186
187
            N, N-dimethyl-Lys N, N, N-trimethyl-Lys, any
            unnatural basic amino acid, Tyr, nor-Tyr,
188
189
            mono-halo-Tyr, di-halo-Tyr, O-sulpho-Tyr,
190
            O-phospho-Tyr, nitro-Tyr
191
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192
      <221> NAME/KEY: PEPTIDE
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      <222> LOCATION: (15)..(16)
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PAGE: 5 RAW SEQUENCE LISTING DATE: 02/17/2000 PATENT APPLICATION US/09/493,795 TIME: 12:51:55

Input Set: **I493795.RAW**

```
195
            Xaa at residue 16 is des-Xaa, Gly, Thr, Ser, Pro,
196
            hydroxy-Pro, Tyr, nor-Tyr, mono-halo-Tyr,
197
            di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr,
198
            nitro-Tyr or any
199
      <220> FEATURE:
200
      <221> NAME/KEY: PEPTIDE
201
      <222> LOCATION: (16)..(17)
      <223> OTHER INFORMATION: unnatural hydroxy containing amino acid; Xaa at
202
203
            residue 17 is des-Xaa14, Ile, Val, Asp, Leu, Phe,
204
            Arg, ornithine, homoarginine, Lys, N-methyl-Lys,
            N, N-dimethyl-Lys, N, N, N-trimethyl-Lys, any
205
206
            unnatural
      <220> FEATURE:
207
208
      <221> NAME/KEY: PEPTIDE
209
      <222> LOCATION: (17)..(19)
      <223> OTHER INFORMATION: basic amino acid, Tyr, nor-Tyr, mono-halo-Tyr,
210
211
            di-halo-Tyr, O-sulpho-Tyr, O-phospho-Tyr,
212
            nitro-Tyr or any unnatural hydroxy containing
            amino acid; Xaa at residue 19 is des-Xaa, Gly,
213
214
            Ala, Met, Ser,
215
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216
      <221> NAME/KEY: PEPTIDE
217
      <222> LOCATION: (19)
      <223> OTHER INFORMATION: Thr, Trp (D or L), neo-Trp, halo-Trp, any
218
219
            unnatural aromatic amino acid, Arg, ornithine,
220
            homoarginine, Lys, N-methyl-Lys, N,N-dimethyl-Lys,
221
            N, N, N-trimethyl-Lys or any unnatural basic amino
            acid.
222
223
      <220> FEATURE:
224
      <221> NAME/KEY: PEPTIDE
225
      <222> LOCATION: (20)
226
      <223> OTHER INFORMATION: Xaa at residue 20 is des-Xaa, Trp (D or L),
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            neo-Trp, halo-Trp, any unnatural aromatic amino
228
            acid, Arg, ornithine, homoarginine, Lys,
229
            N-methyl-Lys, N, N-dimethyl-Lys,
230
            N,N,N-trimethyl-Lys or any
231
      <220> FEATURE:
232
      <221> NAME/KEY: PEPTIDE
      <222> LOCATION: (20)..(21)
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      <223> OTHER INFORMATION: unnatural basic amino acid; Xaa at residue 21 is
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235
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237
            N, N, N-trimethyl-Lys or any unnatural basic amino
238
            acid.
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239
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241
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                                                  10
242
            Xaa Cys Xaa Xaa Xaa
243
                         20
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Please Note: 210> SEQ ID NO 3

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Jas I

VERIFICATION SUMMARYDATE: 02/17/2000PATENT APPLICATION US/09/493,795TIME: 12:51:55

Input Set: 1493795.RAW

Line	?	Error/Warning							Original Text									
	-																	
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240	W	"N"	or	"Xaa"	used:	Feature	required					_	Cys	Xaa	Xaa	Xaa	Xaa	C
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474	W	"N"	or	"Xaa"	used:	Feature	required	Asp	Xaa	Cys	Cys	Ser	Asp	Ser	Arg	Cys	Gly	Х
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							required	Asp	Xaa	Cys	Cys	Arg	Arg	His	Ala	Cys	Thr	L
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590	W	"N"	ór	"Xaa"	used:	Feature	required	Cys	Cys	Ser	Asp	Xaa	Ala	Cys	Xaa	Gln	Thr	Х
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							required	Ala	Xaa	Cys	Cys	Asn	Asn	Xaa	Ala	Cys	Val	Х
							required			_	_					-	Cys	
							required			_	_	_					val	
							required			_	_					_	Cys	
							required	_			_	_					val	
							required	_	_	_		_					Ser	
							required	_	_	_	_				_		Leu	
							required	_	_	_							Gln	
							required	_	_	-							Asn	
							required			_	-						Asn	
							required			-	-						Asn	
							required			_							Asn	
							required		_	_	_							
							required			_	_						Asn	
							required			_	_						Asn	
							_			_	_						Asn	
							required			_	_					_	Asn	
							required			_	_					_	Asn	
							required	-	-	-	_					_	Ala	
							required	_	_								Val	
							required	_	_	_					-		Val	
							required	_	-	_	ser	HIS	хаа	Ата	Cys	ser	Gly	х.
							required	-	Xaa		_					.	~ 3	_
							required		_								Gly	
							required										Gly	
							required	_	-	-					_		Met	
							required	-	-	-					_		Leu	
							required	_	_	_					_		Ala	
							required	_	_	_					_		His	
							required	_	_	_							Gly	
							required	_	_								Ala	
							required	_	_	_					-		Val	
							required										Arg	
1037 V	N	"N"	or	"Xaa"	used:	Feature	required	Xaa	Xaa	Cys	Cys	Ser	Asp	Xaa	Arg	Cys	Asn	s

DATE: 02/17/2000 TIME: 12:51:55 PATENT APPLICATION US/09/493,795

Input Set: 1493795.RAW

1050 W "N" or "Xaa" used: Feature required 1064 W "N" or "Xaa" used: Feature required 1076 W "N" or "Xaa" used: Feature required 1088 W "N" or "Xaa" used: Feature required 1108 W "N" or "Xaa" used: Feature required 1110 W "N" or "Xaa" used: Feature required 1116 W "N" or "Xaa" used: Feature required 112 W "N" or "Xaa" used: Feature required 113 W "N" or "Xaa" used: Feature required 126 W "N" or "Xaa" used: Feature required 127 W "N" or "Xaa" used: Feature required 128 W "N" or "Xaa" used: Feature required 129 W "N" or "Xaa" used: Feature required 120 W "N" or "Xaa" used: Feature required 121 W "N" or "Xaa" used: Feature required 122 W "N" or "Xaa" used: Feature required 123 W "N" or "Xaa" used: Feature required 124 W "N" or "Xaa" used: Feature required 125 W "N" or "Xaa" used: Feature required 126 W "N" or "Xaa" used: Feature required 127 W "N" or "Xaa" used: Feature required 128 W "N" or "Xaa" used: Feature required 129 W "N" or "Xaa" used: Feature required 120 W "N" or "Xaa" used: Feature required 121 W "N" or "Xaa" used: Feature required 122 W "N" or "Xaa" used: Feature required 123 W "N" or "Xaa" used: Feature required 124 W "N" or "X	Line ?	Error/Warning							Original Text										
1064 W "N" or "Xaa" used: Peature required 1076 W "N" or "Xaa" used: Peature required 1088 W "N" or "Xaa" used: Feature required 1108 W "N" or "Xaa" used: Feature required 1110 W "N" or "Xaa" used: Feature required 1129 W "N" or "Xaa" used: Feature required 1129 W "N" or "Xaa" used: Feature required 1126 W "N" or "Xaa" used: Feature required 1127 W "N" or "Xaa" used: Feature required 1128 W "N" or "Xaa" used: Feature required 1129 W "N" or "Xaa" used: Feature required 1120 W "N" or "Xaa" used: Feature required 120 W "N" or												·		• • • • •	·		·		
1006 W "N" or "Xaa" used: Peature required 1008 W "N" or "Xaa" used: Peature required 1100 W "N" or "Xaa" used: Peature required 1110 W "N" or "Xaa" used: Peature required 1106 W "N" or "Xaa" used: Peature required 1106 W "N" or "Xaa" used: Peature required 1100 N "N" or "Xaa" used:							_			_	_		_		_	_			
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Original Text Line ? Error/Warning

4440 W Invalid/Missing Amino Acid Numbering